Work Order ID 75955

75955 *75955* 89:44 AM



Page 1

Insp.

Stamp

November-02-11 10:39:44 AM Item ID: D3391-023 Accept *N900040100* Setup Start **Revision ID: Item Name:** Mid Tube Assembly **Start Date:** 02/11/2011 Start Qty: 1.00 **Cust Item ID: Required Date:** 16/11/2011 Reg'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: M. C. J. Date: 1111107 Tooling: **Approvals:** Date: Stop OC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Work Center ID Description **Run Hours** Code **Oty** Number **Oty** Draw Nbr **Revision Nbr** D3391 Rev H U/F 100 0.00 Skidtubes *100* Skidtubes 0.00 Memo Skidtubes 1-Cut tube to finish length as per Dwg D3391 2-Identify as D3391-023 3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391 4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail 5-Remove .030" from Fwd indexing Ridge as per Dwg D3391 6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391 7-Deburr 8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker, 9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to

(20 holes) as per Dwg D3391

Ø0.297"

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W/O:		WORK ORDER CHANGES									
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Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
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Work Order ID 75955 *75955* Page 2 November-02-11 10:39:44 AM Item ID: D3391-023 Accept *N900040100* Setup Start **Revision ID:** Stop Item Name: Mid Tube Assembly **Start Date:** 02/11/2011 Start Oty: 1.00 **Cust Item ID: Required Date:** 16/11/2011 Req'd Qty: 1.00 **Customer:** Reference: Run Start **Approvals: Process Plan:** Date: ______ Tooling: Date: Stop QC: _____ Date: ____ SPC (Y/N): Date: Sequence ID/ Operation Tool ID Tool # Plan Set Up/ Accept Reject Reject Insp. Work Center ID Description Code **Run Hours Qty** Number Stamp Oty 11-11-16 11-Open .375" holes to .438" ***do not open fwd saddle holes*** 12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z) 13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill 188 dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021 14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previusly drilled holes, drill remaining wearplate holes into D3391-021. 11-12-12 15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937 16- Open 2 fwd wearplate holes in D3391-023 to .250" dia. 17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

W/O:		WORK ORDER CHANGES						
DATE	STEP	STEP PROCEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval OC Inspector

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
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Work Order ID 75955 *75955* Page 3 November-02-11 10:39:44 AM D3391-023 Item ID: Accept *N900040100* Setup Start **Revision ID:** Mid Tube Assembly Item Name: Start Qty: 1.00 **Start Date:** 02/11/2011 **Cust Item ID: Required Date:** 16/11/2011 Req'd Qty: 1.00 Customer: Reference: Run Start Process Plan: _____ Date: ____ **Tooling: Approvals:** Date: Stop QC: ____ Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. Work Center ID **Description Run Hours** Code Qty Number Stamp **Qty** 110 QC5- Inspect part completeness to step on W/O 0.00 *110* 0.00 Sulizliz QC Memo **Quality Control** 120 Chemical Conversion Coat per QSI005 4.1 0.00 *120* HandFinish 0.00 Memo Hand Finishing 130 QC3- Inspect Part Finish 0.00 *130*

0.00

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Work Order ID 75955 *75955* Page 4 November-02-11 10:39:44 AM D3391-023 Item ID: Accept *N900040100* Setup Start **Revision ID:** Item Name: Mid Tube Assembly 02/11/2011 Start Qty: 1.00 **Start Date: Cust Item ID: Req'd Qty:** 1.00 **Required Date:** 16/11/2011 **Customer:** Reference: Run Start Process Plan: Date: Tooling: **Approvals:** Date: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Tool # Plan Reject Set Up/ Accept Reject Insp. Work Center ID Description Qty Number Stamp **Run Hours** Code **Qty** 140 0.00 Skidtubes *140* Skidtubes 0.00 Memo Skidtubes 1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg 3- Prepare tube for welding 4-Bond web in place as per Dwg D3391 & QSI 015. Adhere for 12 hours)

A/R Sikaflex exp: 12 08

batch#: 119395 150 QC5- Inspect part completeness to step on W/O 0.00 1 0 SE 11-12-14 *150* QC 0.00 Memo Quality Control

160

160

Skidtubes

Skidtubes

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0.00

0.00

Skidtubes

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

A/R M 118735

8611-12-14

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NOTE: Date & initial all entries

Resolution:

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Item ID: Revision ID:	D3391-023			Accept	*N900	040	100)* ·	Setup Sta	rt *N	S1*
Item Name:	Mid Tube Ass	sembly							Sto	p *N	S2*
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Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
170		QC10- Inspect visual pe	r QSI004- ground welds	0.00					- •		•
170 QC Quality Control		Memo		0.00 Sul	2/16					-	- <u> </u>
180		QC5- Inspect part compl	eteness to step on W/O	0.00							
180 QC Quality Control		Memo		0.00 Eu	12/16						

185

Pressure Wash per QSI005 4.3

0.00

185

HandFinish Memo

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Hand Finishing AND REALODINE AS PER PAR09-043

X/M/14/17

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Item ID: Revision ID: Item Name:	D3391-023 Mid Tube Assembly	,	Accept	*N900040	100*	Setup Start	ומיטו
Start Date:	02/11/2011 Start Qty: 1.00 16/11/2011 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:		213р	*NS2*
Approvals:	Process Plan:QC:			Date:		Run Start Stop	"NR1"
Sequence ID/ Work Center II 190 *100* Powdercoat Powder Coating	White Gloss(Ref:4.3.5.1)	Der QSI005 4.3-Alum ME: 32 IPERATURE: 32 IE: 2-30	Set Up/ Run Hours 0.00	Tool ID Tool #	Plan Accep Code Qty		Reject Insp. Number Stamp
200 * 2 00* QC	QC3- Inspect Part Finish Memo	O -	0.00				H 11/12/21

Quality Control

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Start Date: Required Date: Reference:	02/11/2011 16/11/2011	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item l Customer:	ID:					I	
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Sequence ID/ Work Center II 210 *210* Skidtubes Skidtubes)	Operation Description Skidtubes Memo	391-021 into D3391-23	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accep Qty	t Reje Qty	ľ	Reject Number	Insp. Stamp
Skiduoes		2- insert T-p 3- ON FIRS' per DSI 9364 4- remove T- pins and clel 5- ON 2ND : DT9415 6- deburr, re-	ins into first and third fw F SIDE ONLY drill out 2 prins and locate DT9415 sos SIDE ONLY ream out 2r ralodine and blow out ch	nd and forth fwd saddles l from first and third crossb and and forth saddle hole to	oolt hole using T- 0.499". Remove							

220

QC5- Inspect part completeness to step on W/O

0.00

Jul12/27

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0.00

Quality Control

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Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp
*230 *230* HandFinish Hand Finishing		HandFinishing Memo Install Insert	ts as per Dwg	0.00				1	4		Il,	die Izd
²⁴⁰ * 24 0*		QC5- Inspect part compl	eteness to step on W/O	0.00	2/17							
QC Quality Control		Memo		0.00	717			•				
²⁵⁰		Identify as per dwg & Ste	ock Location: WD	0.00 D412 "	7-12-0-13/	B759	10	ţ	d		HI	11/12/20
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Packaging

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Work Order ID 75955 *75955* Page 9 November-02-11 10:39:44 AM Item ID: D3391-023 Accept *N900040100* Setup Start **Revision ID:** Stop Mid Tube Assembly Item Name: Start Qty: 1.00 **Start Date:** 02/11/2011 **Cust Item ID: Required Date: 16/11/2011** Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: Approvals: Date:____ Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject **Work Center ID** Description **Run Hours** Code Qty Qty Number Stamp 260 QC21- Final Inspection - Work Order Release 0.00 *260*

0.00

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Quality Control

11/18-98

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Picklist Print.

.. November-02-11 10:39:47 AM

Work Order ID: 75955

75955

Parent Item:

D3391-023

D3391-023

Parent Item Name: Mid Tube Assembly

Start Date: 02/11/2011

Required Date: 16/11/2011

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A05.10.20New Issue KJ/EC

IPP B06.02.10ECN773 dwg rev.D EC

IPP C 07.03.20 rev F dwg EC IPP D 07.03.28 re-format EC IPP E 07.10.31 ecn 1053P EC

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100		Manufactured	No	The second second		100	Each	65.0000	1	1			
D2500-1-	100								**	45	11-	(\ \	(b

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			<u>Location</u>	Loc Qty	Loc Code		
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			50251	65		*(
D3391-021	Manufactured	No	1	00 Each	0.0000	1 1	\sim
D3391-021			7/11			**	
Fwd Tube Assembly			7/457				
D3389-1	Manufactured	No	1	40 Each	0.0000	1 1	
D3389-1						**	-RR
Web			77031	/			-
D3681-1	Manufactured	No		60 Each	29.0000	5 5	
D3681_1						**	n

D3681-1

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LG	29	
68958	2	
69893	2	
71845	25	

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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector

Page 2 November-02-11 10:39:47 AM Work Order ID: 75955 *75955* Parent Item: D3391-023 *D3391-023* Parent Item Name: Mid Tube Assembly **Required Date: 16/11/2011** Start Date: 02/11/2011 Start Qty: 1.00 Required Oty: 1.00 D3591-1 Manufactured 210 Each 37.0000 2 *D3591-1* B77740 (42) Al 4/12/20 Bushing Location Loc Qty Loc Code ST068 37 57350 66147 71847 28

230

Each

263

2,279.000

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20

X1 119538 (X20) M 11/2/20

ALS4-1032-130

Purchased

No

Insert

ALS4-1032-130

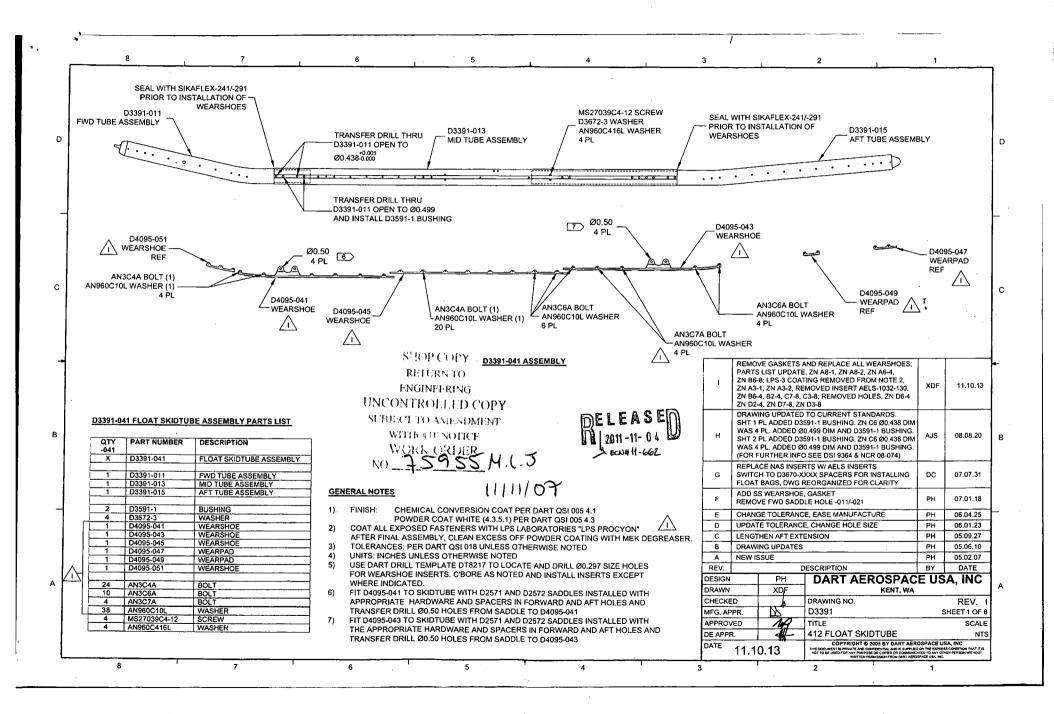
ALS-7-1032-130	<u>Location</u>	Loc Oty	Loc Code
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	119084	2000	
	ST281	279	
	117717	2	
	118237	12	
	118312	2	

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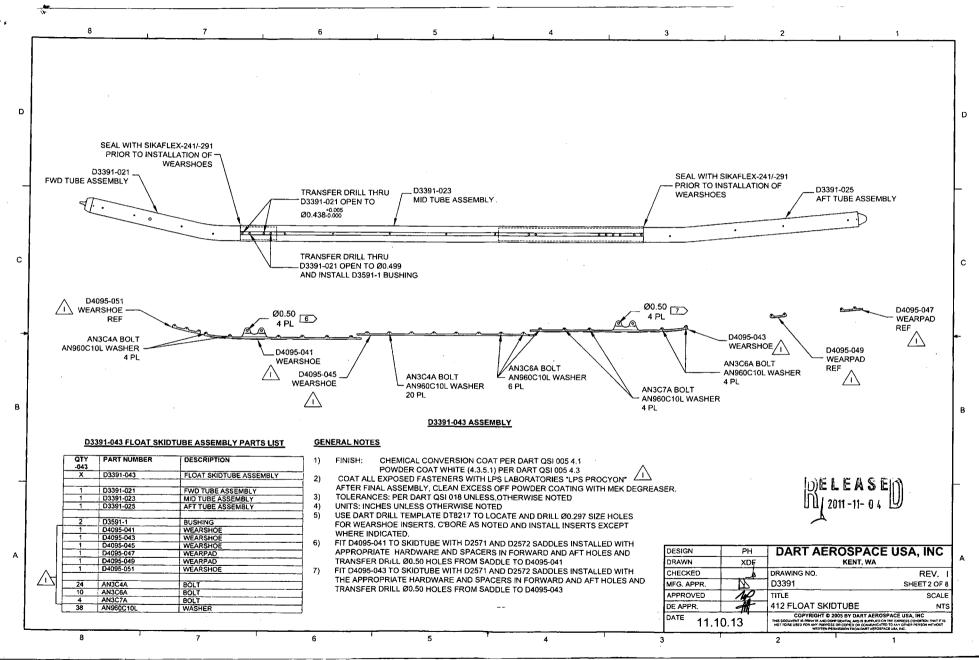
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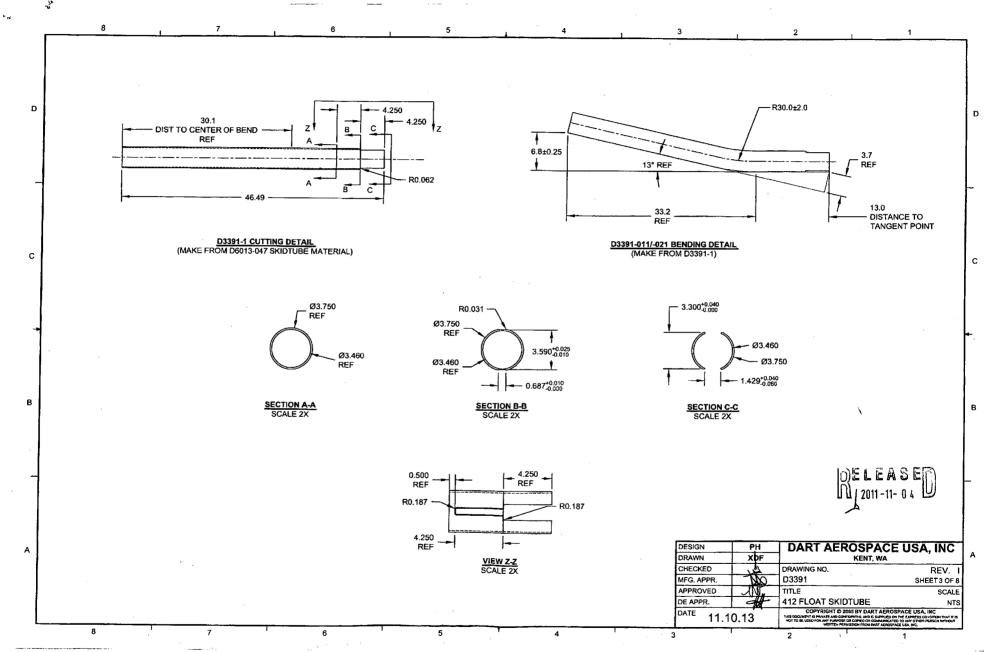


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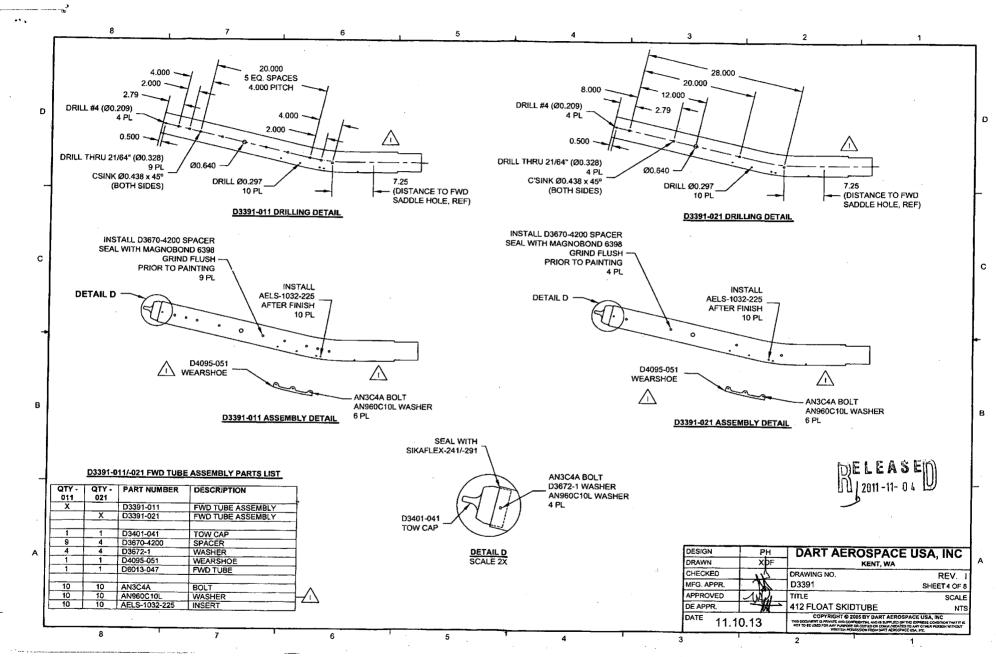
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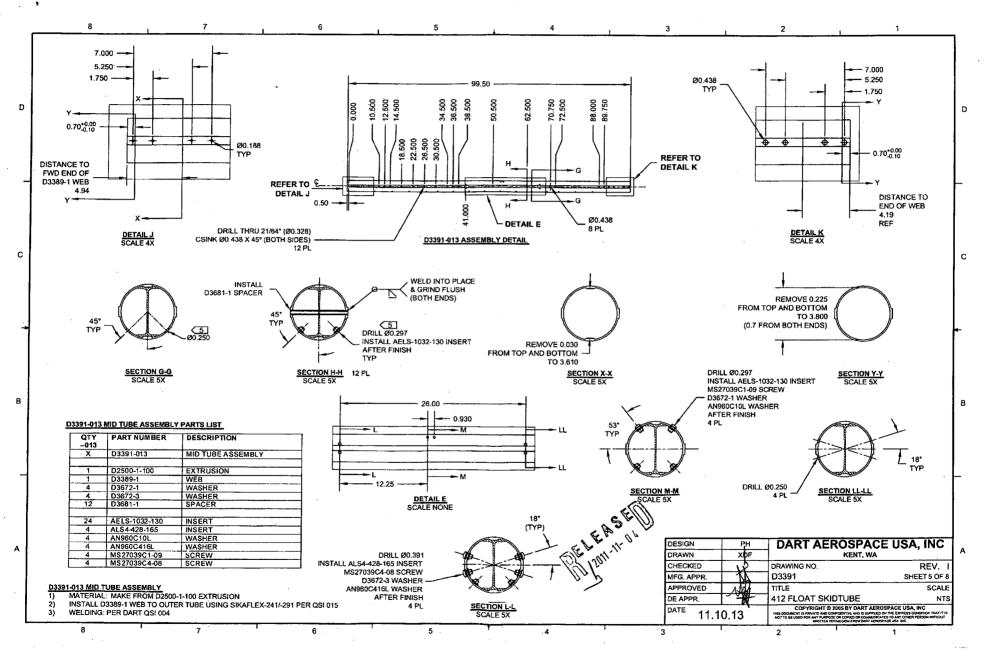
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Part No:	P	AR #:	Fault Category:	NCR: Yes No DQA:	Date:	
	Resolution:		Disposition:	QA: N/C Closed:	Date:	,

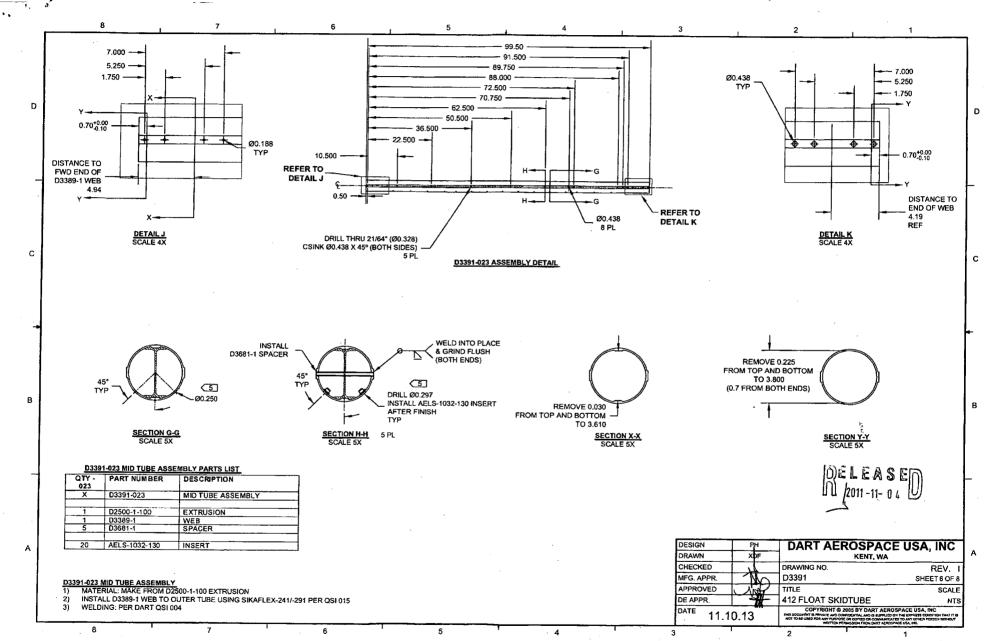
NCR:			WORK OR	DER NON-CONFORMANO	CE (NCR)			
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspecto
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W/O:	WORK ORDER CHANGES								
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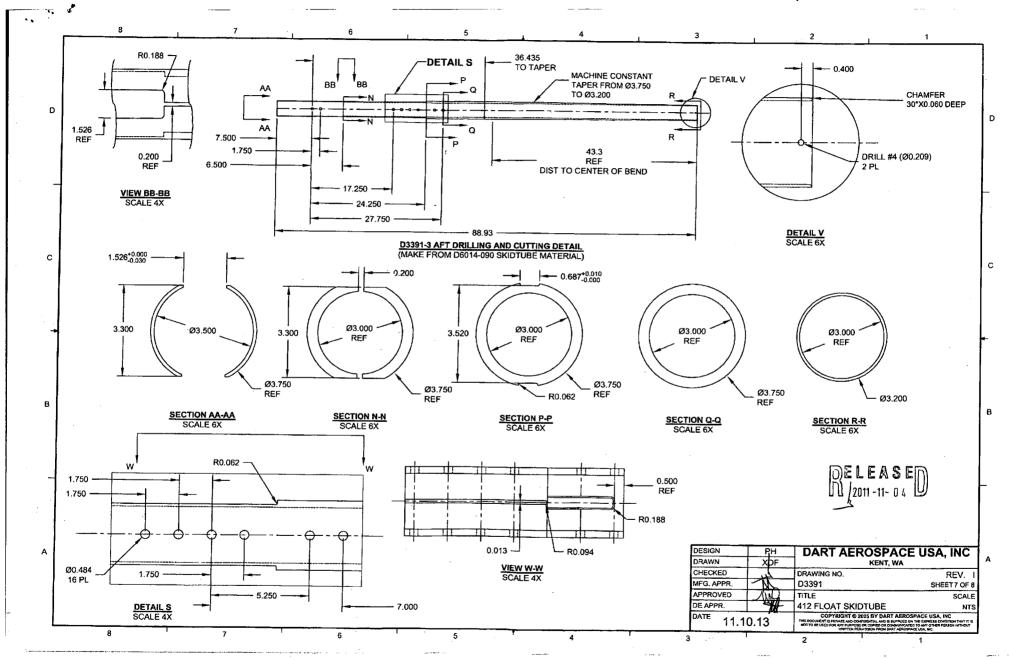
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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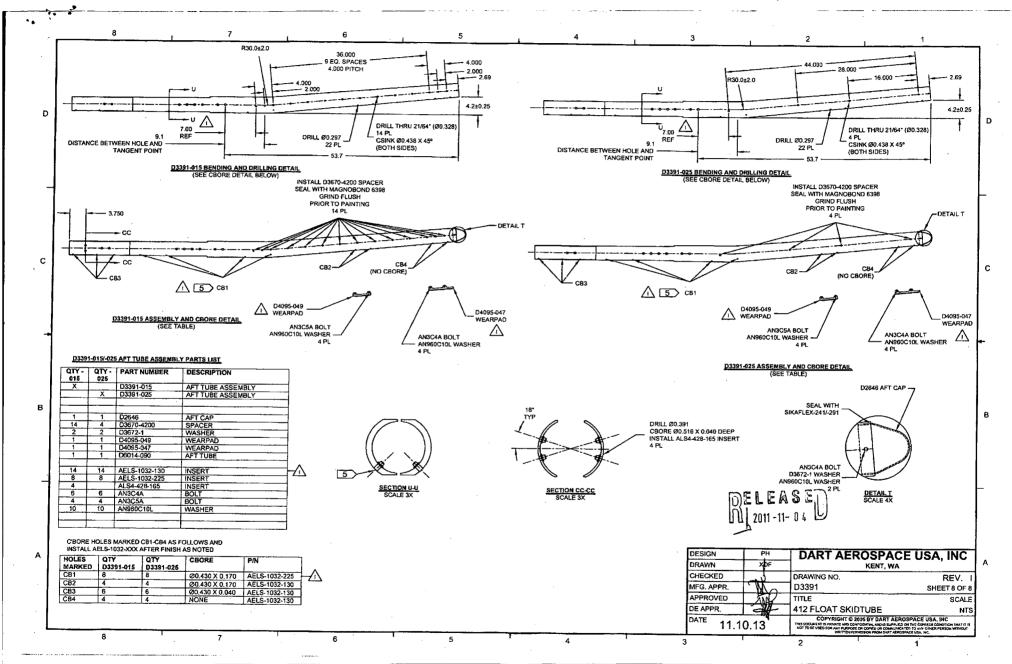
Resolution: _____ Disposition: _____ QA: N/C Closed: ____ Date: ____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector				
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC	Corrective Action Section B		Verification		Annroyal				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector			



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W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
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NCR:			WORK ORDER NON-CONFORMANCE (NCR)							
		Posserintian of NC	(Corrective Action Section B			Annuoval	Ammerical		
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	- Verification Section C	Approval Chief Eng	Approval QC Inspector		
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NO. 264

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Darclay 21/10tt
Job number: 73035
Part number: 3391 - 023
Description: MIX Tuke
Welding Process: Aig[V] Mig[]
Base materiel: Claiminiem
Current: AC[X] DC[]

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[fail[] pass[fail[]
UNACCEPTABLE	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[v] fail[] pass[v] fail[] pass[v] fail[] pass[v] fail[] pass[v] fail[] pass[v] fail[]
Qualifier fort leeus Welder Academy Elliots	Date of Test Coupon //· 08·3/ Date of Test Coupon //-08:3/

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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W/O:		, , , , , , , , , , , , , , , , , , , ,	W	ORK ORDER CHANGE	S					·····
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No	:	PAR #:	Fault Cat	tegory:	NCR	: Yes I	No DQ	A:	Date: _	
Resolution:		Disposition: QA: N/C Closed: Date: _								
NCR:			WORK OR	DER NON-CONFORMA	ICE	(NCR)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng		Sign &	Verific Secti		Approval Chief Eng	Approval QC Inspector
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